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1. Substrate comprising a fibrous material which is provided, over at least a portion of its surface and/or within its thickness, with a coating with photocatalytic properties comprising a semi-conducting material with photocatalytic properties of the oxide or sulphide type, in particular titanium oxide at least partially crystallized in anatase form, the said material being used in combination with a promoter of adhesion to the said fibrous material.
2. Substrate according to Claim 1, characterized in that the semi-conducting material of the titanium oxide type is introduced into the coating in the form of particles in colloidal suspension or in the form of a powder.
3. Substrate according to either of the preceding claims, characterized in that the titanium oxide originates from the thermal decomposition of organometallic or metal halide precursor(s) within the coating.
4. Substrate according to one of the preceding claims, characterized in that the adhesion promoter is organic, inorganic or organic/inorganic hybrid, single- or multicomponent.
5. Substrate according to one of the preceding claims, characterized in that the adhesion promoter comprises a silicon-comprising component of the silane, silicone or siloxane type.
6. Substrate according to one of the preceding claims, characterized in that the adhesion promoter comprises one or more organic polymers, in particular acrylic polymers or fluorinated polymers, optionally in combination with additives belonging to the family of the antioxidants and/or of the ultraviolet absorbers and/or of the stabilizers of the "HALS" type.
7. Substrate according to one of the preceding claims, characterized in that the adhesion promoter comprises at least one metal oxide of the TiO_2 or SiO_2

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type originating from the thermal decomposition of silicon-comprising, organometallic or metal halide precursor(s) within the coating.

8. Substrate according to ~~one of the preceding~~ *Claim 1*
5 ~~claims, characterized in that~~ the adhesion promoter comprises at least one inorganic component chosen from aluminium phosphates and potassium or calcium aluminosilicates.

9. Substrate according to ~~one of the preceding~~ *Claim 1*
10 ~~claims, characterized in that~~ the adhesion promoter forms part of the binder making possible the cohesion of the fibrous material, in particular of the sizing type for mineral wool or sizing type for reinforcing strands or binder type for a mat obtained from
15 reinforcing strands.

10. Substrate according to ~~one of the preceding~~ *Claim 1*
~~claims, characterized in that~~ the mineral fibrous material comprises mineral wool of the insulation type and/or glass strands of the reinforcing type.

11. Substrate according to ~~one of the preceding~~ *Claim 1*
20 ~~claims, characterized in that~~ the fibrous material is organized in the web, felt, mould, paper or bulk material form.

12. Substrate according to ~~one of the preceding~~ *Claim 1*
25 ~~claims, characterized in that~~ the coating with photocatalytic properties sheaths at least a portion of the fibres of the fibrous material over a thickness of at least 5 nm, in particular of between 30 and 50 nm.

13. Process for the manufacture of the substrate
30 according to ~~one of the preceding claims, characterized~~ *Claim 1*
~~in that~~ the coating with photocatalytic properties is deposited in the liquid phase on the production line for the fibrous material, in particular between the fiberizing devices, of the centrifuging dish, device
35 for fiberizing by external centrifuging, device for fiberizing by mechanical drawing, device for fiberizing by air blowing or device for fiberizing by steam blowing type, and the devices for receiving the fibres, optionally before, with or after the deposition of the

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14. Process for the manufacture of the substrate according to ~~one of claims 1 to 12~~, characterized in

5 that the coating with photocatalytic properties is deposited in the liquid phase on the production line for the fibrous material downstream of the devices for receiving the fibres resulting from the fiberizing devices, in particular before the optional heat
10 treatment/conditioning devices of the stove type.

15. Process for the manufacture of the substrate according to ~~one of claims 1 to 12,~~ characterized in ~~that~~ the coating with photocatalytic properties is deposited in the liquid phase on the production line or outside the production line for the fibrous material during the operation of conversion of the latter into the finished product, in particular during the operation of conversion of blankets of reinforcing strands into mats.

16. Process for the manufacture of the substrate according to ~~one of Claims 1 to 12~~, ^{Claim 1} characterized in that the coating with photocatalytic properties is deposited in the liquid phase on the finished fibrous material and then the said material is subjected to a heat treatment.

17. Process according to ~~one of Claims 13 to 16,~~ ^{Claim 15} characterized in that the coating is deposited in the fluid phase, in particular the liquid phase, by spraying, coating or dip coating.

30 18. ~~Application of the substrate according to one~~
~~of Claims 1 to 12 to thermal/sound insulation materials~~
or to liquid or gas filters, purifiers or diffusers, in
order to confer on them dirt-repellent, fungicidal,
bactericidal, algicidal or odour-controlling
35 properties.

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